

AMENDMENTS**In the Claims**

Please cancel claim 24 without prejudice.

Please amend claims 1, 3-9, 12-15, 18, 25-26, 31, 35-41, 46, 48, and 52 as shown herein.

Claims 1-23 and 25-58 are pending and are listed following:

1. (currently amended) An audio generation system, comprising:
an audio processing component configured to generate an audio rendition
corresponding to audio wave data derived from multiple audio wave data sources,
the audio rendition including an audible playback according to playback
instructions;

audio wave track components configured to generate the playback
instructions that are routed to the audio processing component to initiate the audio
rendition being generated; and

a segment component configured to play ~~one or more of~~ the audio wave
track components to generate the playback instructions for the audio rendition.

1 2. **(original)** An audio generation system as recited in claim 1,
2 further comprising MIDI track components configured to generate event
3 instructions that are routed to the audio processing component to initiate a second
4 audio rendition corresponding to MIDI audio data, and wherein the segment
5 component is further configured to play one or more of the MIDI track
6 components to generate the event instructions.

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8 3. **(currently amended)** An audio generation system as recited in
9 claim 1, further comprising a segment state that includes programming references
10 to each of the audio wave track components, the segment state configured to
11 initiate that ~~one or more~~ of the audio wave track components generate the
12 playback instructions.

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14 4. **(currently amended)** An audio generation system as recited in
15 claim 1, further comprising one or more segment states that include programming
16 references to each of the audio wave track components, the one or more segment
17 states configured to initiate that ~~one or more~~ of the audio wave track components
18 generate the playback instructions such that the audio processing component
19 generates one or more audio renditions corresponding to the audio wave data.
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1 5. (currently amended) An audio generation system as recited in
2 claim 1, further comprising a performance manager that includes one or more
3 segment states, each segment state including programming references to each of
4 the audio wave track components, and each segment state configured to initiate
5 that ~~one or more of~~ the audio wave track components generate the playback
6 instructions.

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8 6. (currently amended) An audio generation system as recited in
9 claim 1, further comprising one or more performance managers that each include a
10 segment state having programming references to each of the audio wave track
11 components, the segment state configured to initiate that ~~one or more of~~ the audio
12 wave track components generate the playback instructions.

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14 7. (currently amended) An audio generation system as recited in
15 claim 1, ~~wherein the audio processing component is further configured to receive~~
16 ~~the audio wave data from one or more audio wave data sources, and~~ wherein the
17 audio processing component is further configured to receive the playback
18 instructions from the ~~one or more~~ audio wave track components.

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20 8. (currently amended) An audio generation system as recited in
21 claim 1, wherein the audio processing component is a synthesizer component
22 configured to receive the audio wave data from ~~one or more~~ the multiple audio
23 wave data sources, and is further configured to generate the audio rendition in
24 response to the playback instructions.

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2 **9. (currently amended)** An audio generation system as recited in
3 claim 1, further comprising at least a second audio processing component
4 configured to receive the playback instructions from the ~~one or more~~ audio wave
5 track components, the second audio processing component further configured to
6 generate a second audio rendition corresponding to the audio wave data.

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8 **10. (original)** An audio generation system as recited in claim 1,
9 wherein the audio wave track components are further configured to maintain the
10 audio wave data as an embedded audio wave data source.

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12 **11. (original)** An audio generation system as recited in claim 1,
13 wherein the segment component is further configured to maintain the audio wave
14 data as an embedded audio wave data source.

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16 **12. (currently amended)** An audio generation system as recited in
17 claim 1, wherein the audio wave track components are further configured to
18 randomly select a variation of the audio wave data such that the segment
19 component plays the ~~one or more~~ audio wave track components that correspond to
20 the variation selection.

1 **13. (currently amended)** An audio generation system as recited in
2 claim 1, wherein the audio wave track components include programming
3 references to variations of the audio wave data, and wherein the audio wave track
4 components are further configured to randomly select a variation of the audio
5 wave data such that the segment component plays the ~~one or more~~ audio wave
6 track components that correspond to the variation.

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8 **14. (currently amended)** An audio generation system as recited in
9 claim 1, wherein the segment component is a programming object having an
10 interface that is callable by a software component of the audio generation system
11 to initiate that the segment component play the ~~one or more~~ audio wave track
12 components.

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14 **15. (currently amended)** An audio generation system as recited in
15 claim 1, wherein the segment component is a programming object having an
16 interface that is callable by a performance manager to initiate that the segment
17 component play the ~~one or more~~ audio wave track components, and wherein the
18 audio wave track components are programming objects each having an interface
19 that is callable by the segment component to initiate that the ~~one or more~~ audio
20 wave track components generate the playback instructions.

1 **16. (original)** An audio generation system as recited in claim 1,
2 wherein the audio wave track components generate the playback instructions to
3 include one or more of the following:

4 one or more programming references to the audio wave data;

5 a start time to initiate the audio rendition being generated;

6 a volume parameter that is a decibel gain applied to the audio wave data;

7 a pitch parameter that identifies an amount that the audio wave data is to be
8 transposed;

9 a variation parameter that identifies whether the audio wave data
10 corresponding to a particular audio wave track component is to be played;

11 a duration parameter that identifies how long audio wave data
12 corresponding to a particular audio wave track component will be played; and

13 a stop play parameter that stops the audio rendition from being generated.

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1 **17. (original)** An audio generation system as recited in claim 1,
2 wherein the audio wave track components are implemented as data structures
3 associated with the segment component, an individual data structure for an audio
4 wave track component including one or more of the following:

5 one or more programming references that identify the audio wave data;

6 a start time that identifies when the audio wave track component is played
7 relative to other audio wave track components;

8 a volume parameter that is a decibel gain applied to the audio wave data;

9 a pitch parameter that identifies an amount that the audio wave data is to be
10 transposed;

11 a variation parameter that identifies whether the audio wave data
12 corresponding to a particular audio wave track component is to be played;

13 a duration parameter that identifies how long audio wave data
14 corresponding to a particular audio wave track component will be played.

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1 **18. (currently amended)** An audio generation system, comprising:
2 a MIDI track component configured to generate event instructions for MIDI
3 audio data received from a MIDI audio data source;

4 an audio wave track component configured to generate playback
5 instructions for audio wave data ~~maintained in an~~ received from multiple audio
6 wave data source ~~sources~~ sources;

7 a segment component configured to play the MIDI track component to
8 generate the event instructions, and further configured to play the audio wave
9 track component to generate the playback instructions; and

10 an audio processing component configured to receive the event instructions
11 and the playback instructions, and further configured to generate an audio
12 rendition ~~corresponding to~~ that is an audible playback of the MIDI audio data and
13 to the audio wave data.

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15 **19. (original)** An audio generation system as recited in claim 18,
16 wherein the segment component includes the MIDI track component and the audio
17 wave track component.

1 **20. (original)** An audio generation system as recited in claim 18,
2 wherein the segment component includes the MIDI track component, the audio
3 wave track component, and one or more of the following:

4 one or more additional MIDI track components configured to generate
5 additional event instructions for additional MIDI audio data received from one or
6 more MIDI audio data sources; and

7 one or more additional audio wave track components configured to
8 generate additional playback instructions for additional audio wave data
9 maintained in one or more audio wave data sources.

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11 **21. (original)** An audio generation system as recited in claim 18,
12 further comprising a segment state that includes a first programming reference to
13 the MIDI track component and a second programming reference to the audio wave
14 track component, the segment state configured to initiate that the MIDI track
15 component generate the event instructions, and further configured to initiate that
16 the audio wave track component generate the playback instructions.

1 **22. (original)** An audio generation system as recited in claim 18,
2 further comprising one or more segment states that include a first programming
3 reference to the MIDI track component and a second programming reference to
4 the audio wave track component, the one or more segment states configured to
5 initiate that the MIDI track component generate the event instructions, and further
6 configured to initiate that the audio wave track component generate the playback
7 instructions such that the audio processing component generates one or more
8 audio renditions corresponding to the MIDI audio data and to the audio wave data.

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10 **23. (original)** An audio generation system as recited in claim 18,
11 further comprising a performance manager that includes one or more segment
12 states, each segment state including a first programming reference to the MIDI
13 track component and a second programming reference to the audio wave track
14 component, the one or more segment states configured to initiate that the MIDI
15 track component generate the event instructions, and further configured to initiate
16 that the audio wave track component generate the playback instructions.

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18 **24. (canceled)**

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20 **25. (currently amended)** An audio generation system as recited in
21 claim 18, wherein the audio processing component is a synthesizer component
22 configured to receive the audio wave data from ~~one or more~~ the multiple audio
23 wave data sources.
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1 26. (currently amended) An audio generation system as recited in
2 claim 18, further comprising at least a second audio processing component
3 configured to:

4 receive the audio wave data from ~~one or more~~ the multiple audio wave data
5 sources;

6 receive the event instructions and the playback instructions; and

7 generate a second audio rendition ~~corresponding to that~~ is a second audible
8 playback of the MIDI audio data and to the audio wave data.

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10 27. (original) An audio generation system as recited in claim 18,
11 wherein the audio wave track component is further configured to maintain the
12 audio wave data as an embedded audio wave data source.

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14 28. (original) An audio generation system as recited in claim 18,
15 wherein the segment component is further configured to maintain the audio wave
16 data as an embedded audio wave data source.

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18 29. (original) An audio generation system as recited in claim 18,
19 wherein the audio wave track component is further configured to randomly select
20 a variation of the audio wave data when the audio wave track component is
21 played.

1 **30. (original)** An audio generation system as recited in claim 18,
2 wherein the audio wave track component is further configured to randomly select
3 a variation of the audio wave data such that the segment component plays audio
4 wave data in the audio wave track component that corresponds to the variation
5 selection.

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7 **31. (currently amended)** An audio generation system as recited in
8 claim 18, wherein the audio wave track component includes programming
9 references to variations of the audio wave data maintained in the multiple audio
10 wave data ~~source~~, sources, and wherein the audio wave track component is further
11 configured to randomly select a variation of the audio wave data when the audio
12 wave track component is played.

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14 **32. (original)** An audio generation system as recited in claim 18,
15 wherein the segment component is a programming object having an interface that
16 is callable by a software component of the audio generation system to initiate that
17 the segment component play the MIDI track component and play the audio wave
18 track component.

1 33. (original) An audio generation system as recited in claim 18,
2 wherein:

3 the segment component is a programming object having an interface that is
4 callable by a performance manager to initiate that the segment component play the
5 MIDI track component and play the audio wave track component;

6 the MIDI track component is a programming object having an interface that
7 is callable by the segment component to initiate that the MIDI track component
8 generate the event instructions; and

9 the audio wave track component is a programming object having an
10 interface that is callable by the segment component to initiate that the audio wave
11 track component generate the playback instructions.

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1 34. (original) An audio generation system as recited in claim 18,
2 wherein the audio wave track component generates the playback instructions to
3 include one or more of the following:

- 4 one or more programming references to the audio wave data;
 - 5 a start time to initiate the audio rendition being generated;
 - 6 a volume parameter that is a decibel gain applied to the audio wave data;
 - 7 a pitch parameter that identifies an amount that the audio wave data is to be
8 transposed;
 - 9 a variation parameter that identifies whether the audio wave data
10 corresponding to the audio wave track component is to be played;
 - 11 a duration parameter that identifies how long audio wave data
12 corresponding to the audio wave track component will be played; and
 - 13 a stop play parameter that stops the audio rendition from being generated.
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1 35. (currently amended) An audio generation system as recited in
2 claim 18, wherein the audio wave track component is implemented as a data
3 structure associated with the segment component, the data structure including one
4 or more of the following:

- 5 one or more programming references that identify the audio wave data;
6 a start time that identifies when the audio wave track component is played
7 relative to the MIDI track component and to other audio wave track components;
8 a volume parameter that is a decibel gain applied to the audio wave data;
9 a pitch parameter that identifies an amount that the audio wave data is to be
10 transposed;
11 a variation parameter that identifies whether the audio wave data
12 corresponding to the audio wave track component is to be played;
13 a duration parameter that identifies how long audio wave data
14 corresponding to the audio wave track component will be played.

15
16 36. (currently amended) A method, comprising:
17 initiating a segment component to play ~~one or more~~ audio wave track
18 components that generate playback instructions for audible playback of an audio
19 rendition;

20 generating the playback instructions for audio wave data with the ~~one or~~
21 ~~more~~ audio wave track components, the audio wave data derived from multiple
22 audio wave data sources; and

23 communicating the playback instructions to an audio processing component
24 that generates ~~an~~ the audio rendition corresponding to the audio wave data.
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2 **37. (currently amended)** A method as recited in claim 36, further
3 comprising routing the audio wave data to the audio processing component from
4 ~~one or more~~ the multiple audio wave data sources.

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6 **38. (currently amended)** A method as recited in claim 36, further
7 comprising routing the audio wave data to the audio processing component from
8 ~~one or more~~ the multiple audio wave data sources before generating the playback
9 instructions.

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11 **39. (currently amended)** A method as recited in claim 36, further
12 comprising instantiating a segment state that initiates the segment component
13 playing the ~~one or more~~ audio wave track components.

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15 **40. (currently amended)** A method as recited in claim 36, further
16 comprising instantiating multiple segment states that each initiate the segment
17 component playing the ~~one or more~~ audio wave track components, and wherein:

18 generating the playback instructions includes generating playback
19 instructions for each segment state; and

20 communicating the playback instructions includes communicating the
21 playback instructions for each segment state to the audio processing component
22 such that the audio processing component generates multiple audio renditions
23 corresponding to the multiple segment states.
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1 **41. (currently amended)** A method as recited in claim 36, further
2 comprising selecting a variation number corresponding to one or more variations
3 of the audio wave data, and further comprising playing the ~~one or more~~ audio
4 wave track components corresponding to audio wave data associated with the
5 variation number.

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7 **42. (original)** A method as recited in claim 36, wherein
8 communicating the playback instructions includes communicating the playback
9 instructions to multiple audio processing components that each generate an audio
10 rendition corresponding to the audio wave data.

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12 **43. (original)** A method as recited in claim 36, further comprising:
13 initiating the segment component to play one or more MIDI track
14 components;
15 generating event instructions for MIDI audio data with the one or more
16 MIDI track components; and
17 wherein communicating the playback instructions includes communicating
18 the event instructions to the audio processing component to generate the audio
19 rendition corresponding to the audio wave data and to the MIDI audio data.

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21 **44. (original)** One or more computer-readable media comprising
22 computer-executable instructions that, when executed, direct an audio generation
23 system to perform the method of claim 36.

1 **45. (original)** One or more computer-readable media comprising
2 computer-executable instructions that, when executed, direct an audio generation
3 system to perform the method of claim 43.

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5 **46. (currently amended)** A method, comprising:
6 generating playback instructions for audio wave data with an audio wave
7 track component;
8 generating event instructions for MIDI audio data with a MIDI track
9 component;
10 communicating the playback instructions and the event instructions to an
11 audio processing component that generates an audio rendition ~~corresponding to~~
12 which is an audible playback of the audio wave data and ~~to~~ the MIDI audio data.

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14 **47. (original)** A method as recited in claim 46, further comprising
15 requesting an allocation of logical communication paths in the audio processing
16 component to route the playback instructions and the event instructions.

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18 **48. (currently amended)** A method as recited in claim 46, further
19 comprising routing the audio wave data to the audio processing component from
20 ~~one or more~~ multiple audio wave data sources before communicating the playback
21 instructions.

1 **49. (original)** A method as recited in claim 46, further comprising
2 initiating a segment component to play the audio wave track component and play
3 the MIDI track component such that the audio wave track component generates
4 the playback instructions and the MIDI track component generates the event
5 instructions.

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7 **50. (original)** A method as recited in claim 49, further comprising
8 instantiating a segment state that initiates the segment component playing the
9 audio wave track component and the MIDI track component.

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11 **51. (original)** A method as recited in claim 46, further comprising
12 selecting a variation number corresponding to one or more variations of the audio
13 wave data, and wherein generating the playback instructions includes generating
14 the playback instructions for audio wave data associated with the variation
15 number.

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17 **52. (currently amended)** A method as recited in claim 46, wherein
18 communicating the playback instructions and the event instructions includes
19 communicating the playback instructions and the event instructions to multiple
20 audio processing components that each generate an audio rendition ~~corresponding~~
21 to that is an audible playback of the audio wave data and to the MIDI audio data.

1 **53. (original)** One or more computer-readable media comprising
2 computer-executable instructions that, when executed, direct an audio generation
3 system to perform the method of claim 46.

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5 **54. (original)** One or more computer-readable media comprising
6 computer-executable instructions that, when executed, direct an audio generation
7 system to perform the method of claim 49.

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9 **55. (original)** One or more computer-readable media comprising
10 computer-executable instructions that, when executed, direct an audio generation
11 system to perform a method, comprising:

12 playing one or more audio wave track components;

13 playing one or more MIDI track components;

14 generating playback instructions for audio wave data with the one or more
15 audio wave track components;

16 generating event instructions for MIDI audio data with the one or more
17 MIDI track components; and

18 communicating the playback instructions and the event instructions to an
19 audio processing component that generates an audio rendition corresponding to the
20 audio wave data and to the MIDI audio data.

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22 **56. (original)** One or more computer-readable media as recited in
23 claim 55, wherein the method further comprises routing the audio wave data to the
24 audio processing component from one or more audio wave data sources.
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2 **57. (original)** One or more computer-readable media as recited in
3 claim 55, wherein the method further comprises initiating a segment component to
4 play the one or more audio wave track components and play the one or more MIDI
5 track components.

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7 **58. (original)** One or more computer-readable media as recited in
8 claim 57, wherein the method further comprises instantiating a segment state that
9 initiates the segment component to play the one or more audio wave track
10 components and play the one or more MIDI track components.
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